FIGURE 1A

NUCLEOTIDE SEQUENCE OF NS2/3 (810-1206) ST (SEQ ID. No. 1)

```
atggaccggg agatggctgc atcgtgcgga ggcgcggttt tcataggtct tgcactcttg
accttgtcac catactataa agtgctcctc gctaggctca tatggtggtt acagtattta
atcaccagag tcgaggcgca cttgcaagtg tggatccccc ctctcaatgt tcggggaggc
cgcgatgcca tcatcctcct cacgtgcgca gtccacccag agctaatctt tgacatcacc
ttcgtgcgtg cgcaggggct cattcgtgcg tgtatgttgg tgcggaaggc tgcggggggt
cattatgtcc aaatggcctt catgaagcta gctgcgctga caggtacgta cgtttatgac
catctcactc cattqcaqqa ttgggcccac gcgggcctac gagaccttgc agtggcggta
gagecegtea tettetetga catggaggte aagateatea eetgggggge ggacaeegeg
qcatqcqqqq acatcatttc aggtctgccc gtctccgctc gaaggggaag ggagatactc
ctgggaccgg ccgataattt tgaagggcag gggtggcgac tccttgcgcc catcacggcc
tactcccaac agacacgggg cctacttggt tgcatcatca ccagcctcac aggccgggac
aagaaccagg tcgaggggga ggttcaagtg gtctccaccg ctacacaatc tttcctggcg
acctgcgtca acggcgtgtg ttggactgtc ttccatggcg ccggctcaaa gaccttggcc
ggccccaaag gcccaatcac ccagatgtac actaatgtgg accaggacct cgtcggctgg
caggogococ ctggggcgcg ctccatgaca ccatgcacct gcggcagctc ggacctctat
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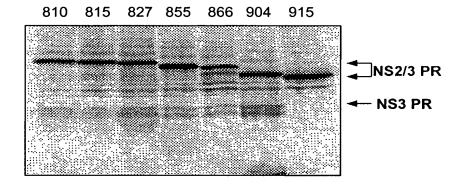
FIGURE 1B

AMINO ACID SEQUENCE OF NS2/3 (810-1206)-ST (SEQ ID NO. 2)

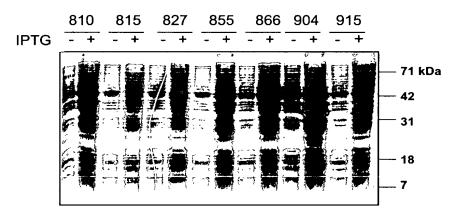
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MDREMAASCG GAVFIGLAL TLSPYKVLL ARLIWWLQYL ITRVEAHLQV WIPPLNYGG RDAILLTCA
VHPELIFDIT KLLLAIFGPL MVLQAGITKV PYFVRAQGLI RACMLVRKAA GGHYVQMAFM KLAALTGTYV
YDHLTPLQDW AHAGLRDLAV AVEPVIFSDM EVKIITWGAD TAACGDIISG LPVSARRGRE ILLGPADNFE
GQGWRLLAPI TAYSQQTRGL LGCIITSLTG RDKNQVEGEV QVVSTATQSF LATCVNGVCW TVFHGAGSKT
LAGPKGPITQ MYTNVDQDLV GWQAPPGARS MTPCTCGSSD LYLVTRHADV IPVRRRGDS GSLLSPRPVS
YLKGSSGGPL LCPSGHAVGI FRAAVCTRGV AKAVDFIPVE SMETTMRTSS AWRHPQFGG
```

FIGURE 2

A. in vitro translated N-terminal deletion mutants



B. E. coli expression - SDS-PAGE



C. E. coli expression - Immunoblot with anti-NS3

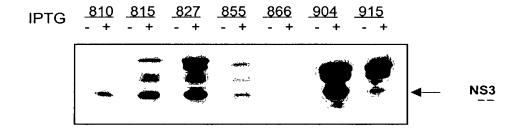
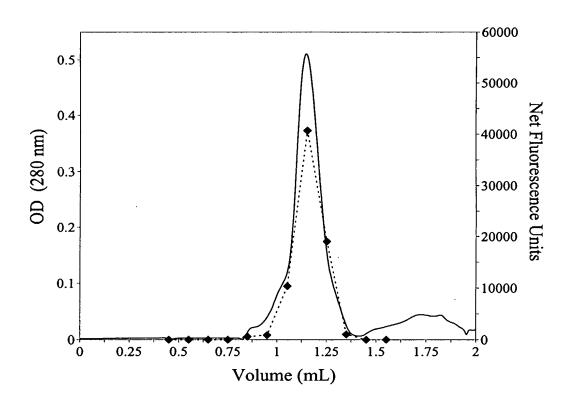
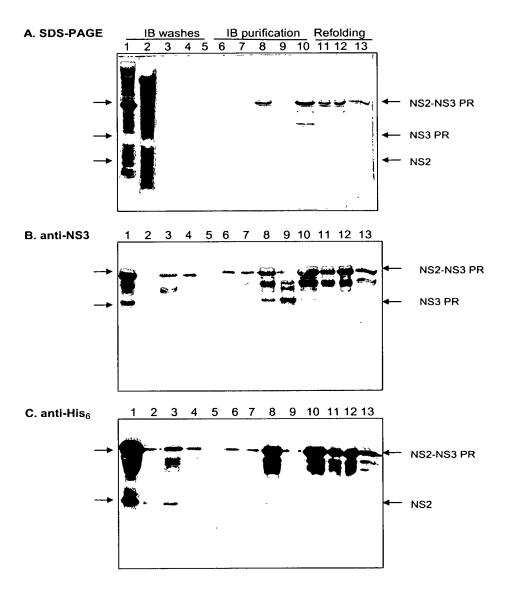


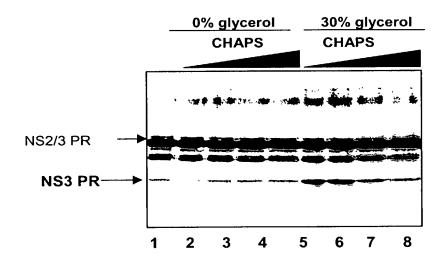
FIGURE 3

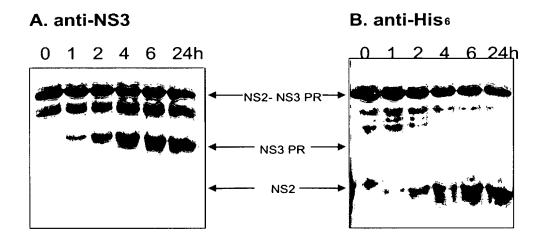


4k 6H NS2/3(904-1206)-ST-4K









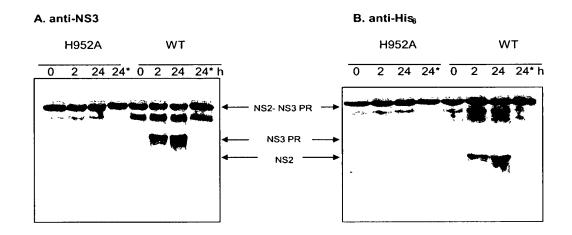


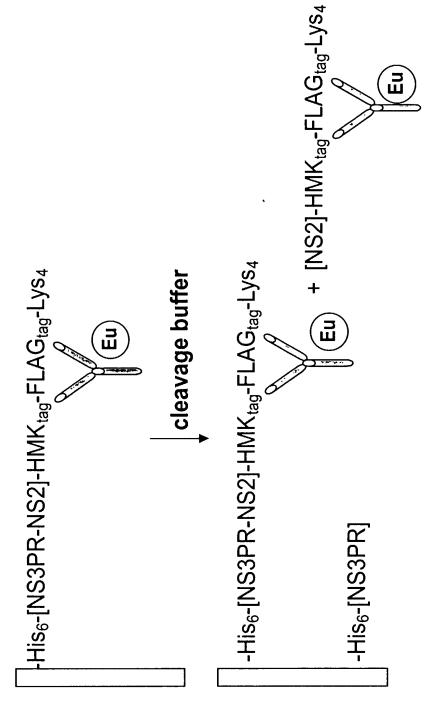
FIGURE 9A

NUCLEOTIDE SEQUENCE OF 4κ -6h-ns2/3 (904-1206) ST- 4κ (SEQ ID NO. 3)

atgaaaaaga aaaagetega geateaceat caccateaca etagtgeagg cataaceaaa gtgccgtact tcgtgcgtgc gcaggggctc attcgtgcgt gtatgttggt gcggaaggct gcggggggtc attatgtcca aatggccttc atgaagctag ctgcgctgac aggtacgtac gtttatgace ateteaetee attgeaggat tgggeeeaeg egggeetaeg agaeettgea gtggcggtag agcccgtcat cttctctgac atggaggtca agatcatcac ctggggggcg gacaccgcgg catgcgggga catcatttca ggtctgcccg tctccgctcg aaggggaagg gagatactcc tgggaccggc cgataatttt gaagggcagg ggtggcgact ccttgcgccc atcacggcct actcccaaca gacacggggc ctacttggtt gcatcatcac cagcctcaca ggccgggaca agaaccaggt cgagggggag gttcaagtgg tctccaccgc tacacaatct tteetggega eetgegteaa eggegtgtgt tggaetgtet teeatggege eggeteaaag acettggeeg geeccaaagg eecaateace cagatgtaca etaatgtgga eeaggaeete gteggetgge aggegeeee tggggegege tecatgaeae catgeaeetg eggeageteg gacctctatt tggtcacgag acatgccgac gtcattccgg tgcgccggcg gggcgacagt agggggagee tgeteteece caggeetgte teetaettga agggetette gggtggeeca etgetetgee etteggggea egttgtggge atetteeggg etgetgtgtg caeceggggg gttgcaaaag cggtggactt catacctgtt gagtctatgg aaactaccat gcggactagt agegettgge gteaceegea gtteggtggt aaaaagaaaa agtaaggate e

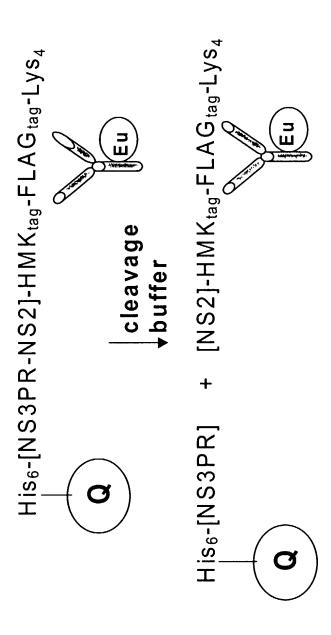
FIGURE 9B Amino acid sequence of 4K-6H-NS2/3 (904-1206) ST-4K (SEQ ID NO. 4)

мккккгеннн	HHHTSAGITK	VPYFVRAQGL	IRACMLVRKA	AGGHYVQMAF	MKLAALTGTY	60
VYDHLTPLQD	WAHAGLRDLA	VAVEPVIFSD	MEVKIITWGA	DTAACGDIIS	GLPVSARRGR	120
EILLGPADNF	EGQGWRLLAP	ITAYSQQTRG	LLGCIITSLT	GRDKNQVEGE	VQVVSTATQS	180
FLATCVNGVC	WTVFHGAGSK	TLAGPKGPIT	${\tt QMYTNVDQDL}$	VGWQAPPGAR	SMTPCTCGSS	240
DLYLVTRHAD	VIPVRRRGDS	RGSLLSPRPV	SYLKGSSGGP	LLCPSGHAVG	IFRAAVCTRG	300
VAKAVDFIPV	ESMETTMRTS	SAWRHPOFGG	KKKK			337



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FIGURE 11



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His₆-[NS3PR-NS2]-HMK_{tag}-FLAG_{tag}-Lys₄

fluorescent probe (potent NS3 protease inhibitor)

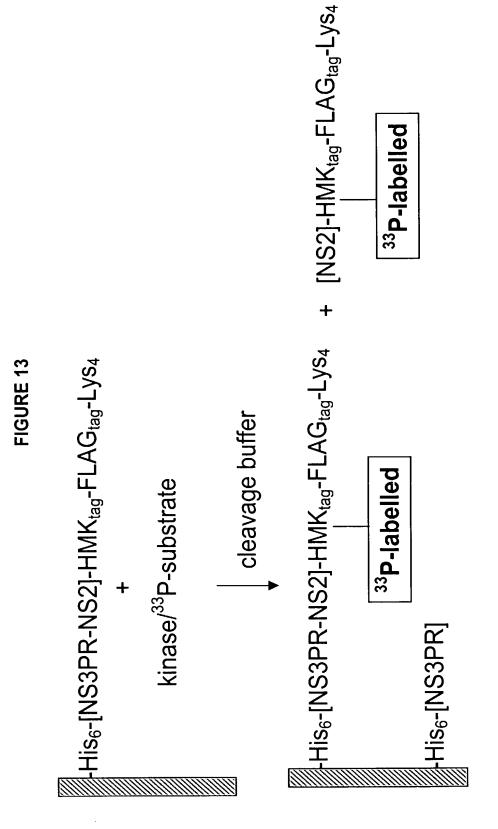
cleavage buffer

Hise-[NS3PR] His₆-[NS3PR-NS2]-HMK_{tag}-FLAG_{tag}-Lys₄ +



+ [NS2]-HMK_{tag}-FLAG_{tag}-Lys₄

* **L**



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50 mM Hepes, pH 7.5, 30% glycerol, 0.5% n-dodecyl-β-D-maltoside, 1 mM TCEP Strep_{tag}-[NS3PR-NS2]-His₆-Lys₄ 1.5 h

Strep_{tag}-[NS3PR-NS2]-His₆-Lys₄ + Strep_{tag}-[NS3PR] + [NS2]-His₆-Lys₄ Streptavidin coated plate transfer

